



## **NJ DEPARTMENT OF TRANSPORTATION**

### **RESEARCH LIBRARY**

#### ***SELECTED RECENT ACQUISITIONS***

**October - December 2015**

The resources reported in this issue are listed by main subject area and then alphabetically by title. Each item is listed only once, so please check related subjects for additional materials that may be of interest. If you would like to see any of these items and there is no link to an online version, please contact the Research Library at [library@dot.state.nj.us](mailto:library@dot.state.nj.us) (Library, DOT) or call 609-530-5289 for these or any other publications.

#### **Administration and Management**

##### **Data to Support Transportation Agency Business Needs: A Self-Assessment Guide /**

Spy Pond Partners, LLC and Iteris, Inc. -- Washington, DC : Transportation Research Board, 2015 (NCHRP Report 814), 113 pp. <http://www.trb.org/Publications/Blurbs/173470.aspx>

#### **Aviation**

##### **Applying an SMS Approach to Wildlife Hazard Management /**

Russell P. DeFusco et al. -- Washington, DC : Transportation Research Board, 2015 (ACRP Report 145), 242 pp., with CD-ROM <http://www.trb.org/Publications/Blurbs/173318.aspx>

##### **Aviation /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2501), 84 pp. <http://www.trb.org/Publications/Blurbs/173419.aspx>

##### **Climate Change Adaptation Planning: Risk Assessment for Airports /**

Dewberry et al. -- Washington, DC : Transportation Research Board, 2015 (ACRP Report 147), 119 pp., with CD-ROM <http://www.trb.org/Publications/Blurbs/173554.aspx>

##### **Commercial Ground Transportation at Airports: Best Practices /**

LeighFisher Inc. et al. -- Washington, DC : Transportation Research Board, 2015 (ACRP Report 146), 147 pp. <http://www.trb.org/Publications/Blurbs/173350.aspx>

##### **Guidebook for Air Cargo Facility Planning and Development /**

Mike Maynard et al. -- Washington, DC : Transportation Research Board, 2015 (ACRP Report 143), 110 pp., with CD-ROM <http://www.trb.org/Publications/Blurbs/173274.aspx>

##### **Improving Ground Support Equipment Operational Data for Airport Emissions Modeling /**

KB Environmental Sciences, Inc. -- Washington, DC : Transportation Research Board, 2015 (ACRP Report 149), various pagings <http://www.trb.org/Publications/Blurbs/173715.aspx>

### **LED Airfield Lighting System Operation and Maintenance /**

John Burns et al. -- Washington, DC : Transportation Research Board, 2015 (ACRP Report 148), 78 pp.  
<http://www.trb.org/Publications/Blurbs/173717.aspx>

### **Recommended Community Noise Model Enhancements to Improve Prediction of Helicopter Activity Impacts /**

Wyle Laboratories et al. -- Washington, DC : Transportation Research Board, 2016-01 (Research Results Digest 24), 4 pp. <http://www.trb.org/Publications/Blurbs/173719.aspx>

### **Strategies for Maintaining Air Service /**

Michael J. Gordon and Melissa Galvan-Peterson -- Washington, DC : Transportation Research Board, 2015 (ACRP Synthesis 68), 61 pp. <http://www.trb.org/Publications/Blurbs/173208.aspx>

### **Unmanned Aircraft Systems (UAS) at Airports: A Primer /**

Kenneth Neubauer et al. -- Washington, DC : Transportation Research Board, 2015 (ACRP Report 144), 90 pp. <http://www.trb.org/Publications/Blurbs/173263.aspx>

## **Bridges and Structures**

### **2015 Interim Revisions to the AASHTO LRFD Bridge Design Specifications - Seventh Edition 2014 - Customary U.S. Units [Looseleaf] /**

American Association of State Highway and Transportation Officials -- Washington, DC : AASHTO, 2015, 239 pp.

### **Consistency of the New York State Bridge Inspection Program /**

Anil K. Agrawal, Glenn A. Washer, and Xu Gong -- New York : City College of New York, Dept. of Civil Engineering ; University Transportation Research Center - Region 2 ; Albany, NY : New York State Dept. of Transportation (NYSDOT), 2013-09 (C-07-17), 114 pp.

[http://www.utrc2.org/sites/default/files/pubs/Bridge-Inspection-Program.pdf?utm\\_source=10-13-15+Final+Reports&utm\\_campaign=07-06-14+PR-Final+Reports&utm\\_medium=email](http://www.utrc2.org/sites/default/files/pubs/Bridge-Inspection-Program.pdf?utm_source=10-13-15+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email)

### **Earthquake Engineering: Theory and Implementation - with the 2015 International Building Code /**

Nazzal Armouti -- 3rd edition -- New York : McGraw-Hill, 2015, 520 pp.

### **Embedded Data Collector (EDC) Phase II Load and Resistance Factor Design (LRFD) /**

Michael C. McVay and Scott J. Wasman -- Gainesville, FL : University of Florida, Dept. of Civil and Coastal Engineering ; Tallahassee, FL : Florida Dept. of Transportation, 2015-09 (FDOT BDV31-977-13), 139 pp.

[http://www.dot.state.fl.us/research-center/Completed\\_Proj/Summary\\_STR/FDOT-BDV31-977-13-rpt.pdf](http://www.dot.state.fl.us/research-center/Completed_Proj/Summary_STR/FDOT-BDV31-977-13-rpt.pdf)

### **Guide for the Preservation of Highway Tunnel Systems /**

Chester Allen et al. -- Washington, DC : Transportation Research Board, 2015 (NCHRP Report 816), 129 pp. <http://www.trb.org/Publications/Blurbs/173393.aspx>

## **Repairing/Strengthening of Bridges with Post-tensioned FRP Materials and Performance Evaluation**

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C.S. Cai and Miao Xia -- Baton Rouge, LA : Louisiana State University, Dept. of Civil and Environmental Engineering ; Louisiana Dept. of Transportation and Development, 2015-09 (FHWA/LA.11/488), 90 pp.  
[http://www.ltrc.lsu.edu/pdf/2015/FR\\_488.pdf](http://www.ltrc.lsu.edu/pdf/2015/FR_488.pdf)

## **Structures /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2522), 160 pp. <http://www.trb.org/Publications/Blurbs/173271.aspx>

## **Underwater Bridge Inspection - 4 Day Course: Participant Workbook - NHI Course Number 130091 [Looseleaf] /**

National Highway Institute -- Washington, DC : Federal Highway Administration, Office of Bridge Technology, NHI, 2011-01 (FHWA-NHI-10-030), various pagings

## **Underwater Bridge Inspection - NHI Course Number 130091 - Reference Manual /**

Terence M. Browne et al. -- Chicago, IL : Collins Engineers, Inc. ; Washington, DC : Federal Highway Administration, Office of Bridge Technology, 2010-06 (FHWA-NHI-10-027), various pagings

## **Construction**

### **The Blue Book - Building and Construction Regional Buyers' Guide: Central & Southern New Jersey - 2015 /**

Contractors Register, Inc. -- 2015 -- Jefferson Valley, NY : Contractors Register, Inc., 2015, 920 pp., Appendix <http://thebluebook.com/microdirectory.html?mdID=23&searchTerm=showalllistings&ww=true>

### **The Blue Book - Building and Construction Regional Buyers' Guide: Northern New Jersey - 2015 /**

Contractors Register, Inc. -- 2015 -- Jefferson Valley, NY : Contractors Register, Inc., 2015, 929 pp., Appendix <http://www.thebluebook.com/microdirectory.html?mdID=10&searchTerm=showalllistings&ww=true>

## **Construction /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2504), 167 pp. <http://www.trb.org/Publications/Blurbs/173516.aspx>

## **Permissible Changes in Scope of Work for Construction Projects /**

Eric M. Kerness and Kurt Dettman -- Washington, DC : Transportation Research Board, 2015-09 (Legal Research Digest 67), 46 pp. <http://www.trb.org/Publications/Blurbs/173209.aspx>

## **Using Mobile Computers to Automate the Inspection Process for Highway Construction Projects /**

Didier Valides and Jose L. Perdomo -- Mayaguez, PR : University of Puerto Rico at Mayaguez ; New York : City College of New York, University Transportation Research Center - Region 2, 2013-12, 16 pp.  
[http://www.utrc2.org/sites/default/files/pubs/Automate-Inspection-Highway-Construction-Projects.pdf?utm\\_source=10-13-15+Final+Reports&utm\\_campaign=07-06-14+PR-Final+Reports&utm\\_medium=email](http://www.utrc2.org/sites/default/files/pubs/Automate-Inspection-Highway-Construction-Projects.pdf?utm_source=10-13-15+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email)

## **Energy and Environment**

### **CNG and Fleets: Building Your Business Case [TechBrief] /**

National Renewable Energy Laboratory (NREL) -- Golden, CO : U.S. Dept. of Energy, Office of Energy Efficiency and Renewable Energy, NREL, 2015-09 (NREL/FS-5400-64900), 2 pp.  
[http://www.afdc.energy.gov/uploads/publication/cng\\_fleets\\_business\\_case.pdf](http://www.afdc.energy.gov/uploads/publication/cng_fleets_business_case.pdf)

### **Environment and Energy /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2502), 153 pp. <http://www.trb.org/Publications/Blurbs/173498.aspx>

### **Experimental Evaluation of Compost Leachates /**

Markus Flury et al. -- Puyallup, WA : Washington State University, Dept. of Crop and Soil Sciences ; Olympia, WA : Washington State Dept. of Transportation, Research Office, 2015-09 (WA-RD 848.1), 159 pp. <http://www.wsdot.wa.gov/research/reports/fullreports/848.1.pdf>

### **Identifying Significant Environmental Features Using Feature Recognition /**

Megan White et al. -- Lexington, KY : University of Kentucky, College of Engineering, Kentucky Transportation Center ; Frankfort, KY : Kentucky Transportation Cabinet, 2015-10 (KTC-15-18/SPR15-502-1F), 37 pp.  
[http://www.ktc.uky.edu/files/2015/10/KTC\\_15\\_18\\_SPR15\\_502\\_1F.pdf](http://www.ktc.uky.edu/files/2015/10/KTC_15_18_SPR15_502_1F.pdf)

### **On-Road Fuel Economy of Vehicles in the United States: 1923-2013 /**

Michael Sivak and Brandon Schoettle -- Ann Arbor, MI : University of Michigan, Transportation Research Institute ; Sustainable Worldwide Transportation, 2015-08 (UMTRI-2015-25), 10 pp.  
<http://deepblue.lib.umich.edu/bitstream/handle/2027.42/115486/103218.pdf?sequence=1&isAllowed=y>

### **Roads and Ecological Infrastructure: Concepts and Applications for Small Animals /**

Kmberly M. Andrews, Priya Nanjappa, and Seth P.D. Riley, editors -- Baltimore : Johns Hopkins University Press, 2015, 281 pp.

## **Freight / Goods Movement**

### **Freight Systems: Urban Freight and Trucking - Volume 2 /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2478), 132 pp. <http://www.trb.org/Publications/Blurbs/173355.aspx>

## **Geotechnical**

### **Geology and Properties of Earth Materials /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2510), 97 pp. <http://www.trb.org/Publications/Blurbs/173625.aspx>

### **Geomaterials /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2509), 56 pp. <http://www.trb.org/Publications/Blurbs/173262.aspx>

### **Geosynthetic Design & Construction Guidelines - Participant's Workbook [Looseleaf] /**

National Highway Institute -- Washington, DC : U.S. Dept. of Transportation, Federal Highway Administration, NHI, 2009-03 (FHWA-NHI-06-117), various pagings

## **History**

### **Linking the Past to the Future: Lessons from History About Emerging Technology /**

Transportation Research Board, Standing Committee on Transportation History -- Washington, DC : TRB, 2015-11 (Transportation Research Circular No. E-C201), 36 pp.  
<http://onlinepubs.trb.org/onlinepubs/circulars/ec201.pdf>

## **Information Management**

### **Information Technology, Geospatial Information, and Advanced Computing /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2528), 127 pp. <http://www.trb.org/Publications/Blurbs/173518.aspx>

## **Intelligent Transportation Systems (ITS)**

### **Saxton Lab Demonstrates Multivehicle Platooning with CACC [TechBrief] /**

Turner-Fairbank Highway Research Center -- McLean, VA : U.S. Dept of Transportation, Federal Highway Administration, Transportation Operations Research and Development, 2015 (FHWA-HRT-16-015), 4 pp.  
<http://www.fhwa.dot.gov/publications/transopsupdate/15nov/16015.pdf>

### **Towards Road Transport Automation: Opportunities in Public-Private Collaboration - Summary of the Third EU-U.S. Transportation Research Symposium /**

Katherine F. Turnbull, rapporteur -- Washington, DC : Transportation Research Board, 2015 (Conference Proceedings 52), 91 pp. <http://www.trb.org/Publications/Blurbs/173640.aspx>

## **Marine / Waterways**

### **Funding and Managing the U.S. Inland Waterways System: What Policy Makers Need to Know /**

Transportation Research Board, Committee on Reinvesting in Inland Waterways: What Policy Makers Need to Know -- Washington, DC : TRB, 2015 (Special Report 315), 212 pp.

## **Materials**

### **ACI Manual of Concrete Practice Index - 2015 (with ACI Concrete Terminology) [Electronic] /**

American Concrete Institute -- Farmington Hills, MI : ACI, 2015, 174 pp.  
<https://www.concrete.org/store/productdetail.aspx?ItemID=MCPINDEX&Format=DOWNLOAD>

### **Asphalt Materials and Mixtures - Volume 1 /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2505), 129 pp. <http://www.trb.org/Publications/Blurbs/173584.aspx>

### **Asphalt Materials and Mixtures - Volume 2 /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2506), 159 pp. <http://www.trb.org/Publications/Blurbs/173646.aspx>

### **Asphalt Materials and Mixtures - Volume 3 /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2507), 137 pp. <http://www.trb.org/Publications/Blurbs/173565.aspx>

### **Feasibility of Reclaimed Asphalt as Aggregate in Portland Cement Concrete Pavements - Phase II: Field Demonstration /**

Michael Berry, Kelsey Dalton, and Flynn Murray -- Bozeman, MT : Montana State University - Bozeman, Western Transportation Institute, Civil Engineering Dept. ; Helena, MT : Montana Dept. of Transportation, Research Programs, 2015-10 (FHWA/MT-15-002/8207-02), 59 pp.  
[http://www.mdt.mt.gov/other/webdata/external/research/docs/research\\_proj/cement/Final\\_Report\\_Oct15.pdf](http://www.mdt.mt.gov/other/webdata/external/research/docs/research_proj/cement/Final_Report_Oct15.pdf)

### **Impact of Polymer Modification on Mechanical and Viscoelastic Properties of Binders and Hot Mix Asphalt /**

Ayman Ali and Yusuf Mehta -- Glassboro, NJ : Rowan University ; New York : City College of New York, University Transportation Research Center - Region 2, 2015-10, 23 pp.  
[http://www.utrc2.org/sites/default/files/pubs/Polymer-Modification-Viscoelastic-Properties.pdf?utm\\_source=10-13-15+Final+Reports&utm\\_campaign=07-06-14+PR-Final+Reports&utm\\_medium=email](http://www.utrc2.org/sites/default/files/pubs/Polymer-Modification-Viscoelastic-Properties.pdf?utm_source=10-13-15+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email)

### **Nanotechnology in Concrete Materials: A Synopsis /**

Bjorn Birgisson et al. -- Washington, DC : Transportation Research Board, Task Force on Nanotechnology-Based Concrete Materials, 2012-12 (Transportation Research Circular No. E-C170), 44 pp. <http://onlinepubs.trb.org/onlinepubs/circulars/ec170.pdf>

### **Performance Testing for HMA Quality Assurance /**

Thomas Bennert and Darius Pezeshki -- Piscataway, NJ : Rutgers University ; Trenton, NJ : New Jersey Dept. of Transportation, Bureau of Research, 2015-09 (FHWA-NJ-2015-010), 124 pp.  
<http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2015-010.pdf>  
<http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2015-010-TB.pdf> - Tech Brief

### **Rejuvenating Agents with RAP in Hot Mix Asphalt (HMA) /**

Thomas Bennert, Christopher Ericson, and Darius Pezeshki -- Piscataway, NJ : Rutgers University ; Trenton, NJ : New Jersey Dept. of Transportation, Bureau of Research, 2015-08 (FHWA-NJ-2015-008), 124 pp. <http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2015-008.pdf>  
<http://www.state.nj.us/transportation/refdata/research/reports/FHWA-NJ-2015-008-TB.pdf> - Technical Brief

### **Short-Term Laboratory Conditioning of Asphalt Mixtures /**

David Newcomb et al. -- Washington, DC : Transportation Research Board, 2015 (NCHRP Report 815), various pagings <http://www.trb.org/Publications/Blurbs/173471.aspx>

## **Operations and Maintenance**

### **Approach to Level-of-Service Target Setting for Highway Assets /**

Amir N. Hanna -- Washington, DC : Transportation Research Board, 2015-10 (Research Results Digest 396), 6 pp. <http://www.trb.org/Publications/Blurbs/173327.aspx>

## **Maintenance Services, Transportation Weather, and Winter Maintenance /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2482), 140 pp. <http://www.trb.org/Publications/Blurbs/173356.aspx>

## **Pavements**

### **Determination of In-Place Elastic Layer Modulus: LTPP Backcalculation Methodology and Procedures [TechBrief] /**

Turner-Fairbank Highway Research Center -- McLean, VA : U.S. Dept. of Transportation, Federal Highway Administration, TFHRC, 2015-08 (FHWA-HRT-15-037), 16 pp.

### **Development of Cost Effective Treatment Performance and Treatment Selection Models /**

Mohammad Jamal Khattak and Gilbert Y. Baladi -- Lafayette, LA : University of Louisiana at Lafayette, Dept. of Civil Engineering ; Baton Rouge, LA : Louisiana Dept. of Transportation and Development, 2015-09 (FHWA/LA.13/518), 503 pp. [http://www.ltrc.lsu.edu/pdf/2015/FR\\_518.pdf](http://www.ltrc.lsu.edu/pdf/2015/FR_518.pdf)

### **Iowa Pavement Asset Management Decision-Making Framework /**

H. David Jeong et al. -- Ames, IA : Iowa State University, Institute for Transportation, Construction Management and Technology Program ; Iowa Dept. of Transportation, Iowa Highway Research Board, 2015-10 (IHRB Project TR-651), 110 pp.  
[http://www.intrans.iastate.edu/research/documents/research-reports/pvmt\\_asset\\_mgmt\\_decision-making\\_framework\\_w\\_cvr.pdf](http://www.intrans.iastate.edu/research/documents/research-reports/pvmt_asset_mgmt_decision-making_framework_w_cvr.pdf)

### **MoDOT Pavement Preservation Research Program - Volume I: Summary Report /**

David N. Richardson -- Rolla, MO : Missouri University of Science and Technology, Center for Transportation Infrastructure and Safety/NUTC Program ; Jefferson City, MO : Missouri Dept. of Transportation, Construction and Materials Division, 2015-10 (cmr 16-004), 50 pp.  
<http://library.modot.mo.gov/RDT/reports/TRyy1141/cmr16-004v1.pdf>

### **Pavement Design, Construction, and Management: A Digital Handbook /**

American Association of State Highway and Transportation Officials, Joint Technical Committee on Pavements (SCOD and SOM) -- 1st edition -- Washington, DC : AASHTO, 2015, web-based document  
<http://bookstore.transportation.org/>

### **Reflective Crack Mitigation Guide for Flexible Pavements /**

R. Christopher Williams, Can Chen, and Ashley Buss -- Ames, IA : Iowa State University, Institute for Transportation ; Iowa Dept. of Transportation, Iowa Highway Research Board, 2015-09 (IHRB Project TR-641 ; InTrans Project 11-424), 142 pp.  
[http://www.intrans.iastate.edu/research/documents/research-reports/reflective\\_crack\\_mitigation\\_guide\\_w\\_cvr.pdf](http://www.intrans.iastate.edu/research/documents/research-reports/reflective_crack_mitigation_guide_w_cvr.pdf)

### **Rehabilitation of Concrete Pavements Utilizing Rubblization and Crack-and-Seat Methods - Phase II: Performance Evaluation of Rubblized Pavements in Iowa /**

Halil Ceylan, Kasthurirangan Gopalakrishnan, and Sunghwan Kim -- Ames, IA : Iowa State University, Center for Transportation Research and Education ; Iowa Dept. of Transportation, Iowa Highway Research Board, 2008-04 (IHRB Project TR-550 ; CTRE Project 05-237), 122 pp.

## **Planning**

## **Empowering Individuals to Make Environmentally Sustainable and Healthy Transportation Choices in Mega-Cities through a Smartphone App /**

Yan Zheng, Sara V. Flanagan, and Alfredo Morabia -- Flushing, NY : City University of New York, Queens College and School of Public Health ; New York : City College of New York, University Transportation Research Center - Region 2, 2015-04, 32 pp.  
[http://www.utrc2.org/sites/default/files/pubs/Smart-Transportation-Choices-Mega-Cities-Smartphone-App.pdf?](http://www.utrc2.org/sites/default/files/pubs/Smart-Transportation-Choices-Mega-Cities-Smartphone-App.pdf?utm_source=10-13-15+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email)  
[utm\\_source=10-13-15+Final+Reports&utm\\_campaign=07-06-14+PR-Final+Reports&utm\\_medium=email](http://www.utrc2.org/sites/default/files/pubs/Smart-Transportation-Choices-Mega-Cities-Smartphone-App.pdf?utm_source=10-13-15+Final+Reports&utm_campaign=07-06-14+PR-Final+Reports&utm_medium=email)

## **Passenger Travel Facts and Figures 2015 /**

William H. Moore, editor -- Washington, DC : U.S. Dept. of Transportation, Bureau of Transportation Statistics, 2015, 94 pp.

## **Planning - Volume 1 /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2499), 53 pp. <http://www.trb.org/Publications/Blurbs/173519.aspx>

## **Public Health and Transportation: Innovation, Intervention, and Improvements /**

Transportation Research Board -- Washington, DC : TRB, 2015-09 (TR News No. 299 (September-October 2015)), 64 pp. <http://www.trb.org/Publications/Blurbs/173417.aspx>

## **Response to Putting People First: An Alternative Perspective with an Evaluation of the NCE Cities "Trillion Dollar" Report - DRAFT /**

Todd Litman -- Victoria, BC : Victoria Transport Policy Institute, 2015-11, 38 pp.  
<http://www.vtpi.org/PPFR.pdf>

## **Street Smart: The Rise of Cities and the Fall of Cars /**

Samuel I. Schwartz and William Rosen -- 1st edition -- New York : PublicAffairs, 2015, 292 pp.

## **Travel Behavior - Volume 2 /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2496), 63 pp. <http://www.trb.org/Publications/Blurbs/173740.aspx>

## **Rail**

### **A Guide to Building and Retaining Workforce Capacity for the Railroad Industry /**

QinetiQ North America, Hile Group, and Department of Engineering Professional Development, University of Wisconsin -- Washington, DC : Transportation Research Board, 2015 (NCRRP Report 2), various pagings <http://www.trb.org/Publications/Blurbs/173352.aspx>

### **Modernizing Freight Rail Regulation /**

Transportation Research Board, Committee for a Study of Freight Rail Transportation and Regulation -- Washington, DC : TRB, 2015 (Special Report 318), 264 pp.

### **Railroad Legal Issues and Resources /**

Larry W. Thomas -- Washington, DC : Transportation Research Board, 2015-09 (Legal Research Digest 2), 163 pp., with CD-ROM <http://www.trb.org/Publications/Blurbs/173276.aspx>



### **Railroads: Freight and Passenger Systems - Volume 1 /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2475), 101 pp. <http://www.trb.org/Publications/Blurbs/173354.aspx>

### **Railroads: Track, Equipment, and Safety - Volume 2 /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2476), 136 pp. <http://www.trb.org/main/blurbs/173517.aspx>

## **Reference**

### **Civil Engineering Reference Manual for the PE Exam - Fourteenth Edition /**

Michael R. Lindeburg -- 14th edition -- Belmont, CA : Professional Publications, Inc., 2014, various pagings

### **Straight Line Diagrams 2015 [Electronic] /**

New Jersey Department of Transportation, Bureau of Transportation Data & Safety -- Trenton, NJ : NJDOT, 2015, USB card, with lanyard [http://www.state.nj.us/transportation/refdata/sldiag/\\_Booklet.pdf](http://www.state.nj.us/transportation/refdata/sldiag/_Booklet.pdf)

## **Research**

### **Improving the Usability of Research Reports (2015 Peer Exchange) /**

Ohio Department of Transportation, Office of Statewide Planning and Research, Research Section -- Columbus, OH : Ohio Dept. of Transportation (ODOT), 2015-10 (FHWA/OH-2015/32), 28 pp. <http://cdm16007.contentdm.oclc.org/cdm/ref/collection/p267401ccp2/id/12979>

## **Safety & Human Performance**

### **Attachment of a Combination Bridge Rail to Concrete Parapet Utilizing Epoxy Adhesive Anchors /**

Robert W. Bielenberg et al. -- Lincoln, NE ; University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Ames, IA : Iowa Dept. of Transportation, Office of Design, 2015-11 (TRP-03-325-15), 118 pp.

### **Conceptual Development of an Impact Attenuation System for Intersecting Roadways /**

Joseph G. Putjenter et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Nebraska Dept. of Roads, 2015-09 (TRP-03-312-15), 534 pp.

### **Evaluation of Michigan's Engineering Improvements for Older Drivers /**

Valerian Kwigizile et al. -- Kalamazoo, MI : Western Michigan University ; Lansing, MI ; Michigan Dept. of Transportation, Research Administration, 2015-09 (RC 1636), 148 pp. [http://www.michigan.gov/documents/mdot/RC1636\\_501939\\_7.pdf](http://www.michigan.gov/documents/mdot/RC1636_501939_7.pdf)  
[http://www.michigan.gov/documents/mdot/RC1636\\_Spotlight\\_506683\\_7.pdf](http://www.michigan.gov/documents/mdot/RC1636_Spotlight_506683_7.pdf) - Tech Summary

### **An Evaluation of Roadside Activity and Behavior of Deer and Black Bear to Determine Mitigation Strategies for Animal-Vehicle Collisions /**

Bridget M. Donaldson, Young-Jun Kweon, and Lewis N. Lloyd -- Charlottesville, VA : Virginia Transportation Research Council ; Richmond, VA : Virginia Dept. of Transportation, 2015-10 (FHWA/VTRC 16-R4), 41 pp. [http://www.virginiadot.org/vtrc/main/online\\_reports/pdf/16-r4.pdf](http://www.virginiadot.org/vtrc/main/online_reports/pdf/16-r4.pdf)

### **MASH Test Nos. 3-17 and 3-11 on a Non-Proprietary Cable Median Barrier /**

Robert W. Bielenberg et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Nebraska Dept. of Roads, Midwest States Regional Pooled Fund Program, 2015-11 (TRP-03-303-15), 293 pp.

### **MASH TL-4 Crash Testing and Evaluation of the RESTORE Barrier /**

Jennifer D. Schmidt et al. -- Lincoln, NE : University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility ; Nebraska Dept. of Roads, 2015-11 (TRP-03-318-15), 295 pp.

### **MGS Dynamic Deflections and Working Widths at Lower Speeds /**

Nicholas A. Weiland et al. -- Lincoln, NE ; University of Nebraska-Lincoln, Nebraska Transportation Center, Midwest Roadside Safety Facility (MwRSF) ; Nebraska Dept. of Roads, Midwest States Pooled Fund Program, 2015-09 (TRP-03-314-15), 49 pp.

### **Operator Education and Regulation; Safe Mobility for Older Persons; Traffic Law Enforcement; Alcohol and Other Drugs /**

Transportation Research Board -- Washington, DC : TRB, 2015 (Transportation Research Record No. 2516), 80 pp. <http://www.trb.org/Publications/Blurbs/173647.aspx>

### **Safety Evaluation of Centerline Plus Shoulder Rumble Strips [TechBrief] /**

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